Due/Interval Date

UPS - Frame Relay and UPS - CDS will be provisioned within ten (10) days for new service, and two (2) days for changes in existing service (e.g. adding a PVC). DS3 installation intervals are set in response to Service Inquiries due to the limited availability of fiber facilities.

When the Service Inquiry response indicates that facilities are not available, then the due date shall be determined on an Individual Case Basis (ICB).

At this time, interval dates must be manually added to the Service Order. This process will be mechanized and this document will be revised at a later date.

Tariff References

At this time, UPS will be offered as stipulated in agreements with CLEC customers.

The following tariffed services are available as transport services for Unbundled Packet Switching:

Digital Data Access Services, High Capacity Services, LightGate (AKA BellSouth SPA Point to Point Network), SMARTRing (AKA BellSouth SPA Dedicated Ring), and SMARTPath (AKA BellSouth SPA Shared Ring).

Pre-Conditioning &Screening Service Request

ASR's will be received by BellSouth (via a mechanized flow-through the Local Competition Service Center - LCSC) to process UPS - FR/UPS - CDS orders. When "UNE" appears as the first three (3) characters of the PROJECT field on the ASR, this indicates the order is for an "Unbundled Network Element" (UNE).

Two REQTYP's for UPS - FR Service are used:

A value of "V" in the 1st position of REQTYP is used to order Virtual Connection Services for UPS- FR that originate at the Carrier's ACTL.

A value of "X" in the 1st position of REQTYP is used to order Virtual Connection END USER Service for UPS - FR.

A SPEC Code is used to identify a UPS - CDS order. CDS SPEC Code SDSLSA (Switched Data Service - Low Speed via Special Access) will not be transferred to the Service Order. The main purpose of this code is to identify the request as UPS-CDS.

When ASR's are received to order a Port only or a Port and PVC's, a 10 day due date should be confirmed to the customer (unless the customer requires a longer interval or facilities are not available; then, the interval will be determined on an Individual Case Basis - ICB). When PVC's only are being ordered, or changes are requested for an existing PVC, a 2 day due date should be confirmed to the customer.

Connectionless Data Service (CDS)

When an ASR is received with a SPEC of SDSLSA (indicating a UPS - CDS order), the BellSouth Service Representative should look for the matching FAX with the same PON. If a Service Inquiry is required, it should be issued at this point. When the response is received, The Rep should issue the Service Order and put the order number and the due date on the manual CDS order form.

Unbundled Frame Relay Service

ASR's received with a REQTYP of "V" or REQTYP of "X" and UNE in the first the spaces of the PROJECT field indicate that Unbundled Frame Relay service is being ordered. A Permanent Virtual Circuit (PVC) is created when translations are performed. For one PVC, two circuit Ids and two Data Link Channel Interfaces (DLCIs) are required ("A" end = 1 circuit ID and its DLCI; and "Z" end = 1 circuit ID and its DLCI).

Data Link Connection Identifier (DLCI): PVC's are identified by an address called a Data Link Connection Identifier (DLCI). DLCI's are used to uniquely identify the logical end points of a virtual circuit.

If the ASAR is received containing DLCI information, then that information will be output on the Service Order via FLEXTUF. When the customer assigns their own DLCI, the number must be within the rage of 0016 through 1007. If the DLCI number selected is not within that range, the customer must be advised to change their DLCI

number to a number between 0016 and 1007. The DLCI number will be floated behind the RMKR (*) FID behind the DLCI USOC in the S&E Section of the Service Order.

If no DLCI information is provided by the customer on the ASR then FLEXTUF will output "0000" behind the RMKR DLCI. BellSouth will negotiate the appropriate DLCI number with the customer and confirm that number to them. The Service Rep's FOC to the customer will show the DLCI number as "0000".

FLEXTUF will generate the appropriate number of DLCI USOCs (XAFD2) based on the entry in the Number of Virtual Connections (NVC) field on the ASR and output the RMKR(*) information on the SOWA. Again, the BellSouth Service Rep must edit the RMKR information and assign the appropriate suffix.

In order to properly provision PVC's specific information is required: **Committed Burst Size (Bc):** The maximum number of bits (amounts of data) during a certain time interval the network agrees to acccept under normal conditions. Burst Size (Bc) is defined for each Permanent Virtual Circuit (PVC).

This info will be shown behind the RMKR(*) FID behind the DLCI USOC on the Service Order via FLEXTUF. When Bc is provided on the ASR by the customer, that info will appear; if Bc info is not shown on the ASR, the Data Customer Support Center Technician will calculate the appropriate Bc information.

Excess Burst Size (Be): The maximum number of uncommitted bits (amount of data), during a certain time interval the network agrees to accept above the Committed Burst Size (Bc). Excess Burst Size (Be) is defined for each Permanent Virtual Circuit (PVC).

Network Channel (NC) Codes 1st through 3rd Characters

UPS FRAME RELAY USER NETWORK INTERFACE - UPS - FR (UNI)

XH-G 56K (DS0) UPS - FR, UNI
XD-G 64K (DS0) UPS - FR, UNI
HCER 1.536M (DS1) UPS - FR, UNI
HF-D 44.210M (DS3) UPS - FR, UNI

UPS FRAME RELAY NETWORK TO NETWORK INTERFACE - UPS - FR (NNI)

XH-H 56K (DS0) UPS - FR, NNI
XD-H 64K (DS0) UPS - FR, NNI
HCEO 1.536M (DS1) UPS -FR, NNI
HF-E 44.210M (DS3) UPS - FR, NNI

UPS CONNECTIONLESS DATA SERVICE SUBSCRIBER NETWORK INTERFACE - UPS - CDS (SNI)

XH-I 56K (DS0) UPS - CDS, SNI
XD-I 64K (DS0) UPS - CDS, SNI
HCE3 1.536M (DS1) UPS - CDS, SNI
HF-F 44.210M (DS3) UPS - CDS, SNI

UPS CONNECTIONLESS DATA SERVICE SWITCH TO SWITCH INTERFACE - UPS - CDS (SSI)

XH-K 56K (DS0) UPS - CDS, SSI
XD-K 64K (DS0) UPS - CDS, SSI
HCEX 1.536M (DS1) UPS - CDS, SSI
HF-X 44.210M (DS3) UPS - CDS, SSI

CLLI for Cascade Switch - The CLLI code for the Cascade Switch will be unique. The valid CLLI codes for the Cascade Switch are in the FCC NECA 4 Tariff. Example: ALBYGAMABB1

UPS - CDS USOC'S

Subscriber Network Interface

XACN5 - (56k/DS0)
XACN6 - (64/DS0)
XACN1 - (1.536m/DS1)
XACN4 - (44.210m/DS3)

Switch to Switch Interface

UPTS5 - (56k/DS0)
UPTS6 - (64k/DS0)
UPTS1 - (1.536m/DS1)
UPTS4 - (44.210m/DS3)

UPS - CDS Optional Features

XACGG Group Address list, per list

XACGE Group address list, per entry

XACGM Group address list, per modification to group

XACMA Multiple addresses (2-16), per address

XACMM Multiple addresses (2-16), per modification to existing address

XACSE Group address screening table, per entry

XACSM Group address screening table, per modification to an entry

XAC1E Individual address screening table, per entry

XAC1M Individual address screening table, per modification to an entry

XACFC Feature Change Charge, per occurrence/per feature

XACTF Transfer of service charge, per Billing Account Number (BAN)

UPS - FR User Network Interface

XAFU5 - (56k/DS0)
XAFU6 - (64k/DS0)
XAFU1 - (1.536m/DS1)
XAFU4 - (44.210m/DS3)

UPS - FR Network to Network Interface

XAFN5 - (56k/DS0)
XAFN6 - (64k/DS0)
XAFN1 - (1.536m/DS1)
XAFN4 - (44.210m/DS3)

UPS FR Optional Features

XAFD2 is the USOC for ordering all UPS DLCI's

XAFFC = Feature Change Charge per occurrence, per Feature for UPS FR

XAFTF = Transfer of Service per BAN

Committed Information Rate (CIR)

XAFCA 0 bps
XAFCB over 0 thru 32 Kbps
XAFCC over 32 thru 56 kbps
XAFCD over 56 thru 64 Kbps
XAFCG over 64 thru 128 Kbps
XAFCH over 128 thru 256 Kbps
XAFCJ over 256 thru 384 kbps
XAFCK over 384 thru 512 Kbps
XAFCL over 512 thru 768 kbps
XAFCM over 768 thru 1.536 Mbps
XAFCP over 1.536 thru 4 Mbps
XAFCQ over 4 thru 10 Mbps
XAFCR over 10 thru 16 Mbps
XAFCT over 16 thru 34 Mbps
XAFCU over 34 thru 44.736 Mbps

Network Channel Codes

XH - 56 Kbps digital access channel DA4 DDS for digital packet, ANSI ESF and B8ZS

XH-H - UPS/FR-NNI
XH-G - UPS/FR-UNI
XH-I - UPS/CDS - SNI
XK-K - UPS/CDS-SSI

XD - 64 Kbps digital access DA6 DDS for digital packet, ANSI ESF and B8ZS (End User Only)

XD-H - UPS/FR-NNI
XD-G - UPS/FR-UNI
XD - I - UPS/CDS-SNI
XD-K - UPS/CDS-SSI

HCEO DS1, ANSI T1.403.1989, ESF and B8ZS, digital packet UPS FR - NNI

HCER DS1, ANSI T1.403.1989, ESF and B8ZS, digital packet UPS FR - UNI

HCE3 DS1, ANSI T1.403-1989, ESF and B8ZS, digital termination UPS CDS - SNI

HCEX DS1, ANSI T1.403.1989, ESF and BSZS, digital termination UPS CDS - SSI

HF-D DS3, Digital Packet UPS UNI (Such as UPS FR - UNI)

HFCD DS3, C Bit Parity

HF-E DS3, Digital Packet UPS NNI (Such as UPS FR - NNI)

HFCE DS3, C Bit Parity

HF-F DS3, Digital Packet (UPS CDS - SNI)

HF-X DS3, Digital Packet (UPS CDS - SSI)

Network Channel Interface Codes

NC Code (Bandwidth)	NCI Code	SECNCI Code
XH (56Kbps)	04DS6.44/44A/44C/44G/44N	04CX9
	04DS9.1S (POP)	04CX9
	04DU9.1SN (EU)	04CX9
	04DU5.56	04CX9
	04QC5.00P (Co-located)	04CX9
XD (64Kbps)	04DS6.44/44A/44C/44G/44N	04CX9
	04DS9.1S (POP)	04CX9
	04DU9.1SN (EU)	04CX9
	04DU5.64	04CX9
	04QC5.00Q (Co-located)	04CX9
HC (1.536Mbps)	04DS6.44/44A/44C/44G/44N	04CX9
	04DS9.1S (POP)	04CX9
	04DU9.1SN (EU)	04CX9
	04QB9.11 (Co-located)	04CX9
HF (44.210Mbps)	04DS6.44/44A/44C/44G/44N	04CX6
	04QB6.33 (Co-located)	04CX6

Service Specific Billing

The minimum billing period for UPS Frame Relay and UPS Connectionless Data Service (CDS) billing is one month unless otherwise stipulated in the individual CLEC's contract.

Network Diagram

The provisioning of UPS FRAME RELAY Service requires the applicable network interface component. In addition, the customer may add optional features.

UNI specifications for UPS Frame Relay are as follows:

ANSI T1.617-1991, "Integrated Services Digital Network (ISDN) - Signaling System No. 1 (DDS1) - Signaling Specification for Frame Relay Service", American National Standards Institute, ANSI T1.618-1991, "Integrated Services Digital Network (ISDN) - Core Aspects of Frame Relay Bearer Service", American National Standards Institute."

Document No. 001-208966, "Frame Relay Specifications with Extension Based on Proposed T1S1 Standards", Digital Equipment Corporation, Northern Telecom, Inc., and StrataCom, Inc.

All UPS UNI access facilities must be in conformance with ANSI standards T1.617-1991, T1.618-1991.

UPS NNI specifications for UPS Frame Relay are as follows:

Frame Relay Forum Document FRF.2, Frame Relay Network-to-Network Phase 1 Implementation Agreement.

All UPS NNI access facilities must be in conformance with ANSI standards and BellCore Technical Reference TS-TSV-001370.

Performance Specifications for UPS Frame Relay are as follows:

BellSouth Technical Reference 73587, Frame Relay Service Interface and Performance Specifications.

Interface Specifications for UPS Frame Relay are as follows:

Digital Packet UPS (UNI)
Digital Packet UPS (NNI)

Technical Specifications:

UPS Connectionless Data Service

UPS - CDS access utilizes Inter-Carrier Interface Protocol (ICIP) level 3 as defined in BellCore TR-TSV-001060 and DXI Data Link (Level 2) protocol as defined in BellCore TRTSY-001239. Detailed BellSouth conformance to the requirements in these documents is contained in Cascade documents 80011 and 80012, respectively. DS3 physical level specifications conform to the Asynchronous c-bit Parity structure defined in ANT T1.107a-1990.

Interface Specifications:

UPS Digital packet (SNI)
UPS Digital packet (SSI)

Responsibilities

DCSC Responsibility

The service is ordered via an Access Service Request (ASR). The DCSC Service Representative will screen the ASR to ensure it is valid, and that if UPS CDS is being ordered that the manual form is received. Service Inquires will be issued as appropriate and responses received. Customers will receive an FOC.

ACAC Responsibility

The Access Customer Advocacy Center (ACAC) is responsible for receiving the initial call from a Customer who has a maintenance problem with this service. Trouble for UPS circuits should be reported to the ACAC at:

AT&T - 1/800-517-2511
MCI - 1/800-517-5038
Sprint - 1/800-988-1402
General Carriers - 1/800-307-2513

The following information should be provided when troubles are reported for UPS - FR and UPS - CDS Service:

-Advise the center that the trouble is for UPS - FR/UPS - CDS.
-Provide the customer's name and call back number.
-Provide the BellSouth Circuit ID.
-Provide the customer's DLCI, or E.164 address and IP address.
-Provide the details of the trouble.

Other References/ F.C.C. No. 1 Sections 2.4 and 21 and State Access Tariffs Sections 2.4 and 21 and FCC NECA 4.

Section 4. Customer Education

Local Service Ordering Process

VIII. Local Service Ordering Process

TAB

VIII. Local Service Ordering Process - Introduction

This section provides all forms required for ordering local service and detailed instructions for completing each form.

Information is also provided in this section concerning the electronic ordering process which may be utilized in place of the manual process included in this guide.

ELECTRONIC ORDERING

Electronic Data Interchange (EDI)

CLECs may use Electronic Data Interchange (EDI) to transmit certain local service requests to BellSouth. An acknowledgment of each request will be transmitted back to the CLEC. There are three basic components of EDI. They are standards, software, and communications. Standards developed by ANSI ASC X12 committees, a National Standards organization, are utilized for EDI. The Telecommunications Industry Forum (TCIF), which is a voluntary association of interested parties work to ensure the continued well-being of the industry by addressing the application of standards and the use of technology.

Software, which is the second component of EDI is ordinarily referred to as translation software. This software translations information from the format used in the application to the EDI standard format with standard content for the appropriate translation set and then communicates the EDI message.

The final component is communications. Communications is the means for transmitting the EDI message containing the EDI data. BellSouth currently is capable of handling the following three methods to connect and transfer EDI documents.

1. IN-DIAL DIRECTLY TO BELLSOUTH

BellSouth has a Gateway Communication product which allows trading partners to dial into our EDI Gateway and drop off their documents and retrieve documents which belong to them. The current requirements for this service are:

Modem requirements:

- Acceptable speeds are 4800 - 14.4
- Bysync protocol

Our modems are AT&T Paradyne Comsphere 3810PLUS V 34. AT&T Paradyne has provided a list of modem brands that were successfully tested against the Comsphere 3810PLUS modem during its Beta testing. Those passing tests in synchronous dial mode are: Comsphere 3810, Comsphere 3800PLUS V 34 Series, UDS V 3400, and UDS 3229. Other modems may work, but are unproved.

Trading Partners are assigned a logon ID and password for their mailbox and are required to send this information at logon time. The telephone number used for in-dial is a Birmingham, Alabama local telephone number which is connected to a bank of modems.

Electronic Ordering **(continued)**

2. VALUE ADDED NETWORK SERVICE (VAN)

BellSouth uses Harbinger VAN service as its primary VAN. The trading partner may subscribe to any VAN of their choice as most all registered VAN's have interconnection between themselves and can transfer data to the appropriate VAN of your trading partner. Each trading partner is responsible for their own delivery method to their VAN and most VANs can accommodate various methods of connectivity to their services.

3. CONNECT:Direct (Formerly NETWORK DATA MOVER (NDM))

This file transfer product's owned by Sterling Software. Both partners must have installed the appropriate platform version of CONNECT Direct. BellSouth is currently running the mainframe version of this product, although this product is available on multiple platforms. BellSouth is currently in production with Trading Partners using MVS, VSE, Open VMS, OS/400, UNIX and MS-DOS. Testing is in progress with Trading Partners using Tandem and Windows NT. BellSouth has not tested with partners using other Sterling supported platforms, such as VM, MSP E520/EX, OS/2m Stratus VOS and NetWare. A dedicated line is used between partners. The customer must purchase the dedicated line. The customer is also expected to purchase the CSU/DSU devices (modems) for both sides to minimize incompatibility. The purchase, installation, and testing of such may take 45-90 days.

BellSouth is committed to the development and implementation of EDI applications. For further information, call 205-977-5540.

Local Exchange Navigation System

The Local Exchange Navigation System (LENS) provides the CLEC with the ability to interactively order. The CLEC has three options for accessing LENS.

A. Dial-up connection requires a Secure ID card per user.
B. The LAN-to-LAN connection requests a T1 type of circuit.
C. Internet

FORM INFORMATION AND ORDERING RULES

General

Local service is ordered using uniform order request forms. Each request form contains entries required for ordering of the particular service and for the establishment of billing to the appropriate CLEC account. **Some changes have been made to the OBF standards for BellSouth specific requirements.**

LCSC Telephone Numbers

Question relating to the preparation of ordering forms should be directed to the LCSC. Facsimile telephone numbers for submitting completed forms are included on the last page of this section.

Service Quantities

Each request may be submitted for any quantity of services provided that the entries pertaining to such services (with the exception of circuit identification) are identical.

Right/Left Justifications

All local service ordering forms utilize the following general instructions

- Quantity fields are right justified.
- Fields with text are left justified.
- Fields not following these justification rules are so noted within the context of the definition and usage statement.

Conventions

The local service ordering guidelines incorporate the following conventions for the population of form entries.

- Required is defined as the field must be populated.
- Optional is defined as the field may or may not be populated.
- Prohibited is defined as the field must not be populated.
- Conditional is defined as the field is dependent upon the relationship to another entry as specified in the usage statement and is dependent upon the presence, absence or combination of other data entries.

Alpha/numeric field composition statements are designed to describe the type of valid entries. If a numeric field is designated as prohibited, it should be left blank and not zero filled. Punctuation and other symbols (e.g., hyphens, ampersands, etc.) are to be considered alpha characters.

Form Information and Ordering Rules (continued)

Errors

Errors in the preparation of the request forms are to be corrected in a manner which will allow for the service to be provided in the most expedient method for all concerned. Errors (e.g., billing or provisioning impacting) may require a supplemental local service request.

CLEC/BellSouth Entries

Certain entries may be populated by either the CLEC or BellSouth dependent upon the order requirement. These stipulations are contained in the instruction for each of the forms.

Examples:

- BellSouth circuit identification would be populated by BellSouth for a new connect while the CLEC would populate the entry for a change or disconnect order.

-Circuit detail entries would be required CLEC entries for a new connect and optional entries for a disconnect of such a circuit.

Ordering/Billing Configurations

The CLEC ordering the local service may be the entity to be billed, or the billed entity may be a customer of the CLEC. The ordering forms allow for these variations. BellSouth's practices/procedures will determine the ordering/billing configurations that are available.

Attachments/Remarks

These request forms were designed with the intent to require a minimum of input information. Remarks field provide space for clarification required for items not specifically covered by the request forms. Attachments may also be used to provide lengthy data requiring further specification (e.g., hunting patterns, restrictions, or other such details not easily described through a standard form entry).

Form Information and Ordering Rules (continued)

Multiple Form Requirements

The Local Service Request (LSR) Form contains administrative data which is common to the request and is associated with one or more order forms, as illustrated in the ordering matrices.

Service Specific Forms

Service specific forms have been designed to accommodate ordering conditions specific to a service type and must be associated with a LSR Administrative Form. These service specific forms and service types are:

- Loop Service (Facility Based)
- Interim Number Portability (Facility Based)
- Loop Service with Interim Number Portability (Facility Based)
- Port Service (Facility Based)

Additional Forms

These forms will accompany the Administrative (LSR) Form and may accompany service specific forms. The forms are:

- End User Information
- Directory Listing Request

Ordering forms for coin service are in the section "Public Access Line/SmartLine". All forms contained in this section are stand alone and do not require the use of any forms listed above.

Form Information and Ordering Rules (continued)

Form Descriptions

Local service is ordered using uniform order request forms. The Local Service Request (LSR) Form contains administrative data which is common to all orders and is associated with the End User Information (EU) Form and one or more order forms which specifically define the requested configurations. The following briefly describes the various ordering forms.

Local Service Request (LSR)

This form is used by the CLEC to request BellSouth to provide the services as specified in the various tariffs/contracts, agreements. The form entries and their usage are described in the Local Service (LSR) Form Section of this guide.

End User Information (EU)

This form is used by the CLEC to provide location of and access information for the end user and other provisioning details necessary to provide the requested service. The form entries and their usage are described in the End User Information (EU) Form Section of this guide.

Loop Service (LS)

This form is used by the CLEC to order loop services. The form entries and their usage are described in the Loop Services (LS) Form Section of this guide.

Interim Number Portability (INP)

This form is used by the CLEC to order interim number portability. The form entries and their usage are described in the Interim Number Portability (INP) Form Section of this guide.